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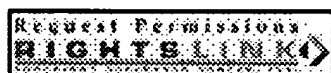
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Recognizing characters in scene images

Ohya, J. Shio, A. Akamatsu, S.
ATR Commun. Syst. Res. Labs., Kyoto, Japan;

Abstract
An effective algorithm for character recognition in scene images is studied. Scene images
regions by an image segmentation method based on adaptive thresholding. Character ca
detected by observing gray-level differences between adjacent regions. To ensure **extrac**
characters as well as single-**segment characters, character** pattern candidates are obt;
the detected regions according to their positions and gray levels. A character recognition ȷ
patterns with high similarities by calculating the similarities between character pattern can
standard patterns in a dictionary and then **comparing the similarities** to the thresholds. /
approach to determine character patterns updates the similarities by evaluating the intera·
categories of patterns, and finally character patterns and their recognition results are obta
promising experimental results have been obtained using the method on 100 images invo
different sizes and formats under uncontrolled **lighting**

Index Terms
Inspec
    Controlled Indexing
    image segmentation   optical character recognition

    Non-controlled Indexing
    adaptive thresholding **character recognition** image segmentation multisegm‹
    characters relaxational approach scene images
Author Keywords
Not Available

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